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PATENT

Attorney Docket No.: RBN-001DV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Keene *et al.* GROUP NUMBER: 1636
SERIAL NUMBER: 10/629,453 CONFIRMATION NUMBER: 5725
FILING DATE: July 29, 2003 EXAMINER: Maria Marvich
TITLE: METHODS FOR ISOLATING AND CHARACTERIZING ENDOGENOUS
mRNA-PROTEIN (mRNP) COMPLEXES

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to below, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Mail Stop: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 30th day of March, 2005.

Dated: March 30, 2005 Brenda T. Kowalczyk
Brenda T. Kowalczyk

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith is/are:

Transmittal (1 pg.); Fee Transmittal (1 pg.); Supplemental Information Disclosure Statement (3 pgs.); PTO-1449 Form (2 pgs.); Cited Art A9 and C50-C64; Check in the amount of \$180.00; this Certificate of First Class Mailing and a return receipt postcard.

Transmittal

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APR 01 2005

(to be used for all correspondence after initial filing)

Application Serial Number	10/629,453
Filing Date	July 29, 2003
First Named Inventor	Keene <i>et al.</i>
Group Art Unit	1636
Confirmation Number	5725
Examiner Name	Maria Marvich
Attorney Docket Number	RBN-001DV
Patent Number	Not Applicable
Issue Date	Not Applicable

Total Number of Pages in This Submission

112

ENCLOSURES (Check all that apply)

☒ Fee Transmittal Form
☒ Check Attached
☐ Copy of Fee Transmittal Form

☐ Response to Notice to File Missing Parts

☐ Copy of Notice to File Missing Parts

☐ Executed Declaration and Power of Attorney for Utility or Design Patent Application

☐ Sequence Listing submission
☐ Paper Copy/CD
☐ Computer Readable Copy
☐ Statement verifying identity of above

☐ CD(s) for large table or computer program

☐ Petition for Extension of Time

☒ Supplemental Information Disclosure Statement

☒ Form PTO-1449

☒ Copies of IDS Citations

☐ Certified Copy of Priority Document(s)

☐ Amendment/Response

☐ Preliminary

☐ After Final

☐ Affidavits/Declarations

☐ Terminal Disclaimer

☐ Transmittal of Formal Drawing(s)

☐ Total Sheets of Drawings __

☐ Request for Continued Examination (RCE) Transmittal

☐ Notice of Appeal to Board of Patent Appeals and Interferences

☐ Appeal Brief (in triplicate)

☐ Amendment After Allowance

☐ Request for Certificate of Correction

☐ Certificate of Correction (in duplicate)

☐ Status Inquiry

☒ Return Receipt Postcard

☒ Certificate of First Class Mailing under 37 CFR 1.8

☐ Certificate of Facsimile Transmission under 37 CFR 1.8

☐ Certificate of Hand Delivery

☐ Revocation of Power of Attorney, Change of Correspondence Address

☐ Additional Enclosure(s) (please identify below)

CORRESPONDENCE ADDRESS

Direct all correspondence to: Docketing Assistant
Sullivan & Worcester LLP
One Post Office Square
Boston, MA 02109
Tel. No.: (617) 338-2800
Fax No.: (617) 338-2880

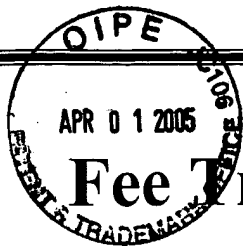
SIGNATURE BLOCK

Respectfully submitted,



Date: March 30, 2005
Reg. No.: 43,153
Tel. No.: (617) 338-2952
Fax No.: (617) 338-2800

Diana M. Steel, D. Phil.
Attorney for Applicants
Sullivan & Worcester LLP
One Post Office Square
Boston, MA 02109



Fee Transmittal

For FY 2005
Effective 12/08/2004

Complete if Known

Application Serial No.	10/629,453
Filing Date	July 29, 2003
First Named Inventor	Keene <i>et al.</i>
Examiner Name	Maria Marvich
Group Art Unit	1636
Confirmation No.	5725
Attorney Docket No.	RBN-001DV

METHOD OF PAYMENT (check all that apply)

1. ☒ Payment Enclosed
☒ Check ☐ Money Order ☐ None
☐ Deposit Account

Deposit Account Number **50-3211**

Deposit Account Name - Sullivan & Worcester LLP

2. ☒ The Director is authorized to: (check all that apply)

- ☐ Charge fee(s) indicated below
☒ Credit any overpayments
☒ Charge any additional fee(s) or any underpayment of fee(s)
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

3. ☒ Applicant claims small entity status.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application	Filing	Search	Examination	Fee Paid
Utility	300	500	200	
Design	200	100	130	
Plant	200	300	160	
Reissue	300	500	600	
Provisional	200	0	0	

	No. Filed	No. Extra	Rate	Amount
Total Claims	- 20=		x \$50.00	
Independent Claims	- 3 =		x \$200.00=	
<input type="checkbox"/> Multiple Dependent Claim(s), if any.			x \$360.00=	

TOTAL

SMALL ENTITY DISCOUNT

SUBTOTAL (1) (\$0.00)

2. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets ___ - 100 = ___ / 50 = ___ (round up) x \$250 =

SUBTOTAL (2) (\$0.00)

3. AMENDMENT CLAIM FEES

Claims Remaining After Amendment	Highest No. Previously Paid For	Present Extra	Rate	Fee Paid
Total	-	=	x \$50.00 =	
Independent	-	=	x \$200.00 =	
<input type="checkbox"/> First Presentation of Multiple Dependent Claim			+ \$360.00 =	

TOTAL

SMALL ENTITY DISCOUNT

SUBTOTAL (3) (\$0.00)

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FEE CALCULATION (continued)

4. ADDITIONAL FEES

Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid
130	65	Surcharge - late filing fee or oath	
50	25	Surcharge - late provisional filing fee or cover sheet	
120	60	Extension for reply within first month	
450	225	Extension for reply within second month	
1020	510	Extension for reply within third month	
1590	795	Extension for reply within fourth month	
2160	1080	Extension for reply within fifth month	
180	180	Submission of Information Disclosure Statement	180.00
40	40	Recordation of assignment per property	
790	395	Filing a submission after final rejection (37 CFR 1.129(a))	
130	65	Terminal Disclaimer	
790	395	Request for Continued Examination (RCE)	
100	100	Certificate of Correction	
790	395	For each additional invention to be examined (37 CFR 1.129(b))	
500	250	Notice of Appeal	
500	250	Appeal Brief	
130	130	Petitions to the Commissioner	
130	130	Non-English specification	
1400	700	Utility issue fee (or reissue)	
800	400	Design issue fee	
1100	550	Plant issue fee	
1400	700	Reissue fee	
300	300	Publication fee	
Other fee Specify			

SUBTOTAL (4) (\$180.00)

SUBTOTAL (1) (\$0.00)

SUBTOTAL (2) (\$0.00)

SUBTOTAL (3) (\$0.00)

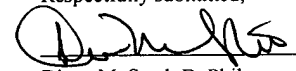
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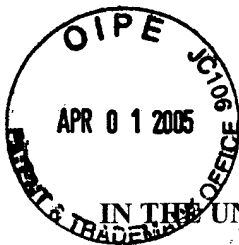
TOTAL (\$180.00)

SIGNATURE BLOCK

Date: March 30, 2005
Reg. No.: 43,153
Tel. No.: (617) 338-2952
Fax. No.: (617) 338-2800

Respectfully submitted,


Diana M. Steel, D. Phil.
Attorney for Applicants
Sullivan & Worcester LLP
One Post Office Square
Boston, MA 02109



PATENT

Attorney Docket No.: RBN-001DV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Keene *et al.* GROUP NUMBER: 1636
SERIAL NUMBER: 10/629,453 CONFIRMATION NUMBER: 5725
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mRNA-PROTEIN (mRNP) COMPLEXES

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicant(s) hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application.

☒ Copies of the patents and publications are enclosed.

OR

☐ In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

In addition, Applicant(s) wish to call to the Examiner's attention the following commonly-owned, co-pending patent application(s) and patents, and Office Action(s) issued therein:

- 1) U.S. Application Serial No. 09/750,401, Attorney Docket No. RBN-001, U.S. Patent No. 6,635,422 B2, issued on 10/21/03;
- 2) U.S. Application Serial No. 10/238,306, Attorney Docket No. RBN-001C1, filed on 09/10/02; and
- 3) U.S. Application Serial No. 10/309,788, Attorney Docket No. RBN-001CP, filed on 12/04/02.

04/01/2005 EAREGAY1 00000023 10629453

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REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☐ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office Action** on the merits, or before the mailing of a **first Office Action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☒ (2) after the period defined in (1) but before the mailing date of a **final Action** or a **Notice of Allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☒ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final Action** or **Notice of Allowance** but before the payment of the **Issue Fee, AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked above and the Statement is required]:


- ☐ (1) Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ (2) No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual**

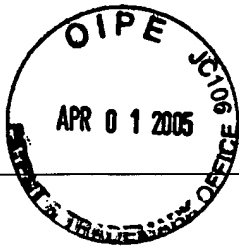
Supplemental Information Disclosure Statement
U.S. Application Serial No. 10/629,453
Page 3

designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the
Information Disclosure Statement.

Respectfully submitted,

Date: March 30, 2005
Reg. No. 43,153
Tel. No. (617) 338-2952
Fax No. (617) 338-2880


Diana M. Steel
Attorney for Applicants
Sullivan & Worcester LLP
One Post Office Square
Boston, MA 02109

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT**
Form PTO-1449

Complete if Known

Application Serial No.	10/629,453
Filing Date	July 29, 2003
First Named Inventor	Keene <i>et al.</i>
Examiner Name	Maria Marvich
Group Art Unit	1636
Attorney Docket No.	RBN-001DV

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Sub Class	Filing Date if Appropriate
	A9	2002/0004211 A1	01/10/02	Keene <i>et al.</i>	435	7.21	

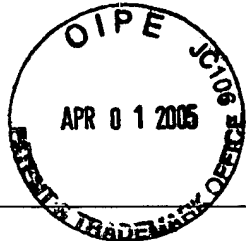
FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Country Code	Class	Sub Class	Filing Date	Abstract Only	English Language (Y/N?)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of author (in CAPITAL LETTERS), date, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue numbers, page numbers, publisher, and city where published (when appropriate).
	C50	International Search Report for International Patent Application No. PCT/US2004/010686, dated January 4, 2005, 21 pages.
	C51	BROWN <i>et al.</i> , November 16, 2001, "Microarray Identification of FMRP-Associated Brain mRNAs and Altered mRNA Translational Profiles in Fragile X Syndrome", Vol. 107:4, pp. 477-487.
	C52	CHEATHAM <i>et al.</i> , December 2, 2002, "A Ribonomic Analysis of Adipocytes: A Systems Biology Tool", Retrieved from the Internet: URL:http://www.ribonomics.com/news/presentations/ribonomics_MetabolicDisease2002Poster.pdf
	C53	GAVIN <i>et al.</i> , January 2002, "Functional Organization of the Yeast Proteome by Systematic Analysis of Protein Complexes", Nature, MacMillan Journals Ltd., Vol. 415, pp. 141-147.
	C54	HEROLD <i>et al.</i> , May 15, 2003, "Genome-Wide Analysis of Nuclear mRNA Export Pathways in Drosophila", Vol. 22:10, pp. 2472-2483.
	C55	HIERONYMUS <i>et al.</i> , February 2003, "Genome-Wide Analysis of RNA-Protein Interactions Illustrates Specificity of the mRNA export Machinery", Vol. 33:2, pp. 155-161.
	C56	KEENE <i>et al.</i> , June 19, 2001, Ribonucleoprotein Infrastructure Regulating the Flow of Genetic Information Between the Genome and the Proteome", Vol. 98:13, pp. 7018-7024.
	C57	KEENE <i>et al.</i> , June 2002, "Eukaryotic mRNPs May Represent Posttranscriptional Operons", Vol. 9:6, pp. 1161-1167.

Examiner Signature		Date Considered	
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT Form PTO-1449		Complete if Known	
		Application Serial No.	10/629,453
		Filing Date	July 29, 2003
		First Named Inventor	Keene <i>et al.</i>
		Examiner Name	Maria Marvich
		Group Art Unit	1636
		Attorney Docket No.	RBN-001DV
	C58	Knoch Klaus-Peter <i>et al.</i> , March 3, 2004, "Polypyrimidine Tract-Binding Protein Promotes Insulin Secretory Granule Biogenesis", Vol. 6:3, pp. 207-214.	
	C59	LELIVELT <i>et al.</i> , October 1999, "Yeast Upf Proteins Required for RNA Surveillance Affect Global Expression of the Yeast Transcriptome", Vol. 19:10, pp. 6710-6719.	
	C60	OHASHI <i>et al.</i> , October 4, 2002, "Identification of mRNA/Protein (mRNP) Complexes Containing Pura, mStaufen, Fragile X Protein, and Myosin Va and their Association with Rough Endoplasmic Reticulum Equipped with a Kinesin Motor", The Journal of Bio. Chem., Vol. 277:40, pp. 37804-37810.	
	C61	PHELPS, W.B., November 6, 2002, "Innovative Systems Biology", Online, Retrieved from Internet: URL: http://www.ribonomics.com/news/presentations/ribonomics_RNA_in_Drug_Development .	
	C62	RIBONOMICS, INC., March 17, 2003, "Research & Technology", Retrieved from the Internet: URL: http://web.archive.org/web/20030317064208/http://www.ribonomics.com/technology/index.html >	
	C63	RODGERS <i>et al.</i> , February 2002, "Identifying mRNAs bound by RNA-Binding Proteins Using Affinity Purification and Differential Display", Vol. 26:2, pp. 115-122.	
	C64	TILLMAR <i>et al.</i> , January 11, 2002, "Control of Insulin mRNA Stability in Rat Pancreatic Islets", The Journal of Biological Chemistry, Vol. 277:2, pp. 1099-1106.	

Examiner Signature		Date Considered	
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